

Title (en)

Polymeric fluorescent substance and polymer light-emitting device using the same

Title (de)

Polymere fluoreszierende Substanz und Licht emittierende Polymer Vorrichtung, die selbige Substanz verwendet

Title (fr)

Matière polymère fluorescent et dispositif eletroluminescent utilisant cette matière

Publication

EP 1277824 B1 20080409 (EN)

Application

EP 02255038 A 20020717

Priority

JP 2001219495 A 20010719

Abstract (en)

[origin: EP1277824A1] A polymeric fluorescent substance exhibiting visible fluorescence in the solid state, having a polystyrene reduced number average molecular weight of 1×10^3 to 1×10^8 , and comprising one or more repeating units of formula (1): <CHEM> wherein Ar1 and Ar2 each independently represent an arylene group or the like; Ar3 represents an aryl group or the like having one or more nuclear substituents of formula (2): -Y-Ar4 wherein Ar4 represents an aryl group or the like; and Y represents -CR3=CR4- or -C IDENTICAL C-; X represents -CR1=CR2- or -C IDENTICAL C-; and n is 0 or 1. The triarylamine type polymeric fluorescent substance is excellent in quantum yield of fluorescence and in light emitting efficiency when made into a device.

IPC 8 full level

C09K 11/06 (2006.01); **H05B 33/14** (2006.01); **H05B 33/22** (2006.01); **H10K 99/00** (2023.01)

CPC (source: EP KR US)

C09K 11/06 (2013.01 - EP KR US); **H10K 85/111** (2023.02 - EP US); **H10K 85/113** (2023.02 - EP US); **H10K 85/151** (2023.02 - EP US); **H10K 85/40** (2023.02 - EP US); **C09K 2211/1003** (2013.01 - EP US); **C09K 2211/1011** (2013.01 - EP US); **C09K 2211/1408** (2013.01 - EP US); **C09K 2211/1416** (2013.01 - EP US); **C09K 2211/1425** (2013.01 - EP US); **C09K 2211/1433** (2013.01 - EP US); **H10K 50/11** (2023.02 - EP US); **H10K 85/115** (2023.02 - EP US); **H10K 85/631** (2023.02 - EP US); **Y10S 428/917** (2013.01 - EP US)

Cited by

EP1892730A1; EP2273512A3; US2010108954A1; US8828274B2; US8465848B2; US8440324B2; WO2005036666A3; US10011684B2; WO2008024379A3; US8652655B2; US8889269B2; US8551624B2; US9099653B2; WO2007068325A1; US8343381B1; US8460802B2; US9574084B2; US7799875B2; EP2273512A2; US8242223B2; US8487055B2

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